

**Li, Ruixiang**

12/5/79

To:  
Subject:

STIC-Biotech/ChemLib  
Sequence search of Application NO: 09/826,509

Please do a standard search on SEQ ID NO: 449 against interference amino acid databases.

Thank you very much!

Ruixiang Li  
GAU 1646  
REM 4D75  
Mail Box 4C70  
(571) 272-0875

78733

5/10/04  
1-AT  
QSP

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 7, 2004, 13:17:25 ; Search time 22 Seconds  
(without alignments)  
1032.519 Million cell updates/sec

Title: US-09-826-509-449

Perfect score: 2292

Sequence: 1 MVPEPGTANSTPAGAGPP.....FNIDPAEPLRPHPLGIPNT 440

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

- 1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/iaa/PTUS\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

\* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	557	24.3	468	2	US-08-390-000A-7
2	557	24.3	477	1	US-08-087-772A-16
3	554	24.2	405	1	US-08-351-473B-2
4	553.5	24.1	365	2	US-08-467-559B-9
5	552.5	24.1	400	1	US-08-351-473B-5
6	552.5	24.1	400	3	US-08-450-962-4
7	552.5	24.1	400	3	US-08-450-962-6
8	552.5	24.1	400	4	US-08-848-631-4
9	552.5	24.1	400	4	US-08-848-631-6
10	552.5	24.1	446	1	US-07-626-618A-21
11	552.5	24.1	446	1	US-08-333-977-21
12	551.5	24.1	400	1	US-07-916-901-6
13	551.5	24.1	400	1	US-07-783-602C-1
14	551.5	24.1	400	1	US-08-351-473B-4
15	551	24.0	477	2	US-08-444-734A-4
16	547.5	23.9	446	2	US-07-969-267B-4
17	547.5	23.9	446	4	US-09-168-510-4
18	546	23.8	388	1	US-08-087-772A-2
19	538.5	23.5	472	1	US-08-194-338-6
20	533.5	23.3	487	1	US-08-444-734A-2
21	533	23.3	408	1	US-08-351-473B-3
22	531	23.2	402	1	US-08-444-734A-6
23	531	23.2	402	1	US-08-087-772A-15
24	531	23.2	408	1	US-07-916-901-2
25	531	23.2	408	3	US-08-450-962-2
26	531	23.2	408	3	US-08-450-962-5
27	531	23.2	408	4	US-08-848-631-2

28	531	23.2	408	4	US-08-848-631-5	Sequence 5, Appli
29	524.5	22.9	446	1	US-07-626-618A-22	Sequence 22, Appl
30	524.5	22.9	446	1	US-08-333-977-22	Sequence 22, Appl
31	523	22.8	400	2	US-08-103-170-9	Sequence 9, Appli
32	515.5	22.5	483	1	US-08-194-338-7	Sequence 7, Appli
33	508	22.2	559	2	US-08-406-855A-20	Sequence 20, Appl
34	508	22.2	559	3	US-09-206-899-20	Sequence 20, Appl
35	507.5	22.1	560	4	US-09-688-415-8	Sequence 8, Appli
36	503	21.9	572	1	US-08-334-698-2	Sequence 2, Appli
37	503	21.9	572	1	US-08-228-932-2	Sequence 2, Appli
38	503	21.9	572	1	US-08-488-339-2	Sequence 2, Appli
39	503	21.9	572	1	US-08-722-001-30	Sequence 30, Appl
40	503	21.9	572	1	US-08-406-855A-2	Sequence 2, Appli
41	503	21.9	572	2	US-08-722-190-2	Sequence 2, Appli
42	503	21.9	572	3	US-08-244-354-2	Sequence 2, Appli
43	503	21.9	572	3	US-09-206-899-2	Sequence 2, Appli
44	503	21.9	572	4	US-09-444-783-2	Sequence 2, Appli
45	503	21.9	572	4	US-09-688-415-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1  
US-08-390-000A-7  
; Sequence 7, Application US/083900000A  
; Patent No. 5985583  
; GENERAL INFORMATION:  
; APPLICANT: Sealcon, Stuart C.  
; TITLE OF INVENTION: Cloning and Expression of  
; TITLE OF INVENTION: Gonadotropin-Releasing Hormone Receptor  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Pennie & Edmonds LLP  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/390,000A  
; FILING DATE: 17-FEB-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mirock, S. Leslie  
; REGISTRATION NUMBER: 18,872  
; REFERENCE/DOCKET NUMBER: 6923-052  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212 790-9090  
; TELEFAX: 212 869-8864/9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 468 amino acids  
; TYPE: amino acid  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
; US-08-390-000A-7

Query Match 24.3%; Score 557; DB 2; Length 468;  
Best Local Similarity 33.8%; Pred. No. 2.1e-34;  
Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;  
Qy 1 MVPEPGTANSTPAGAGPPAGGSGVAAALCVVIALTAANSLLIALICTQPALRNT 60  
Db 24 LVPASPPASLLIPASESPPELSCQMTAGMGLLVLLVAGNVLIVVAIAKTPLQTL 83  
Qy 61 SNFFLVSLFTSLMVGILVMPFAMNLALYGRWYLARGCLLMTAFDVMCCSASILNLCIL 120

Db 84 TNLFMSLASADLVGLLVVFPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASITLCVI 143  
QY 121 SLDRYLILSLPLRYKLRMTPLRALALVGLWLSAALASFLPLLW--HELGHARPPV-- 176  
Db 144 ALDRYLALTSFPRYQSULLTRARAGLVCTVWALSALVSFLPLMHWRASDEARCYND 203  
QY 177 PGQRLLASLFLVVASGLTFPLPSGAICTFYCRILLAAKQAVQVAS----LTTGMASQ 232  
Db 204 PKCCDFVTRAYAIASSVSVFVPLCIMAFAVYLVFRFAQVKKIDSCERRFLGGPARP 263  
QY 233 ASET-----LQVPRTRPGVESADS-----RRLATGHSKALKKLTGLIL 273  
Db 264 PPSPPSPVPAPAPPFGPPRPAATAAFLANGRAGKRRLVALREQKALK---TLGII 320  
QY 274 LGMFVFTWLPFFVANIVQAV-CDICISPLGDFVLTWLGVCNSTMNPITY--PLFMRDFKR 329  
Db 321 MGVTLCWLPFLANVKAHRELVPDRLFVFNWLGYSANFPIIYCRSP----DFRK 376  
QY 330 ALGRFLPCPRCPRERQASLASPSLRTSHSGRPRGLSLOQVLPPLP-PDSDSDDSGGG 388  
Db 377 AFQGLCCARRAARRRHATHGDRPRASGCLARPG-----PPSPGAASDDDDDDVVGA 429  
QY 389 SSGRLRL 394  
Db 430 TPPARL 435

RESULT 2  
US-08-087-772A-16  
; Sequence 16, Application US/0808772A  
; Patent No. 5691155  
; GENERAL INFORMATION:  
; APPLICANT: Nahmias, Clara  
; APPLICANT: Emorine, Jean L.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding the Murine  
; TITLE OF INVENTION: Beta3-Adrenergic Receptor and Their Applications  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seitzer, Park & Gibson  
; STREET: Post Office Drawer 34009  
; CITY: Charlotte  
; STATE: No. 5691155th Carolina  
; COUNTRY: USA  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/087,772A  
; FILING DATE:  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Linker, Raymond O.  
; REGISTRATION NUMBER: 26,419  
; REFERENCE/DOCKET NUMBER: 3339-195  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 919-881-3140  
; TELEFAX: 919-881-3175  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 477 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-087-772A-16

Query Match 24.3%; Score 557; DB 1; Length 477;  
Best Local Similarity 33.8%; Pred. No. 2.1e-34;

Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;  
QY 1 MYPEGPSTANSTPAWAGPSPGSGWVAALCVVIALTAANAASLLITALICTOPALENT 60  
Db 33 LVPASPPASLPPASPEPSQQTAGNGLMLALIVLLIVAGNVLVIVAIAKTPRLQTL 92  
QY 61 SNFFLVSLFTSLMYGLVMPAMLNALYGRWVLARGLCJLWTAFTDVMCCSASINLCII 120  
Db 93 TNLFMSLASADLVGLLVVFPFGATIVVWGRWEYGSFFCELWTSVDVLCVTASITLCVI 152  
QY 121 SLDRYLILSLPLRYKLRMTPLRALALVGLWLSAALASFLPLLW--HELGHARPPV-- 176  
Db 153 ALDRYLALTSFPRYQSULLTRARAGLVCTVWALSALVSFLPLMHWRASDEARCYND 212  
QY 177 PGQRLLASLFLVVASGLTFPLPSGAICTFYCRILLAAKQAVQVAS----LTTGMASQ 232  
Db 213 PKCCDFVTRAYAIASSVSVFVPLCIMAFAVYLVFRFAQVKKIDSCERRFLGGPARP 272  
QY 233 ASET-----LQVPRTRPGVESADS-----RRLATGHSKALKKLTGLIL 273  
Db 273 PPSPPSPVPAPAPPFGPPRPAATAAFLANGRAGKRRLVALREQKALK---TLGII 329  
QY 274 LGMFVFTWLPFFVANIVQAV-CDICISPLGDFVLTWLGVCNSTMNPITY--PLFMRDFKR 329  
Db 330 MGVTLCWLPFLANVKAHRELVPDRLFVFNWLGYSANFPIIYCRSP----DFRK 385  
QY 330 ALGRFLPCPRCPRERQASLASPSLRTSHSGRPRGLSLOQVLPPLP-PDSDSDDSGGG 388  
Db 386 AFQGLCCARRAARRRHATHGDRPRASGCLARPG-----PPSPGAASDDDDDDVVGA 438  
QY 389 SSGRLRL 394  
Db 439 TPPARL 444

RESULT 3  
US-08-351-473B-2  
; Sequence 2, Application US/08351473B  
; Patent No. 5656440  
; GENERAL INFORMATION:  
; APPLICANT: LENZEN, GERLINDA  
; APPLICANT: KAPOON, ARCHANA  
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE  
; TITLE OF INVENTION: BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT  
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: USA  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/351,473B  
; FILING DATE: 21-FEB-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 93 04670  
; FILING DATE: 21-APR-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/FR94/00447  
; FILING DATE: 21-APR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: OBLON, NORMAN F.  
; REGISTRATION NUMBER: 24,618  
; REFERENCE/DOCKET NUMBER: 6639-001-0X PCT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 405 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-351-473B-2

Query Match 24.2%; Score 554; DB 1; Length 405;  
Best Local Similarity 33.6%; Pred. No. 3e-34;  
Matches 143; Conservative 61; Mismatches 156; Indels 66; Gaps 13;

QY 1 MVPEPG-PTANSTPWAGAGPPSPAGGSGWVAALCVVIALTAANAALLIALICTQPALRN 59  
DB 11 LTPMDPTPLAPNTANASGLPGVFWAVALAGALLAVALATVGGNLLVIVAIARTPLQT 70  
QY 60 TSNPFLVSLFTSLMVLVMPAMLNALYGRVWLAGLCLLTAFDVMCCSASILNLC 119  
DB 71 MTNVFTSLATADLVGLLVVPGATLALGHVPLVGTGELWTSVDVLCVTSIETLCA 130  
QY 120 ISDRYLILSPRYKRLMTPLRALALVLAWSLAALASPLLLQWHELG-----H 171  
DB 131 LAVDRYLAVTNPLRYGALVTKREALAALVWVVAASVAPMSKWRIGADAQAORCH 190  
QY 172 ARPPVPGQRLASLPVLVASGLTFPLPSGALCTFYCRILLAAKQAVQVASTLTMG-- 229  
DB 191 SNPRC---CTFASNPVALSSVSFYLPLVLMFVVARVVFVATRQ-UKLLRELRGP 246  
QY 230 -----ASQASLTQVPRTPRGVESADSR--RLATKHSRKALKAKUTLGLLGMFFV 279  
DB 247 PEESPAPSRSGSGLAGPCASPAVPSYGRPARLLPLREHRLR---TLGLMGFTFL 303  
QY 280 TWLPFFVANTVQAV--CDCTSPGLFDVLTWLYGNCSTNMPFIY---PLFMRDFKRALGRF 334  
DB 304 CWLPFFVNVVRAJGGPSLVSGLPTFLALNMLGVANSFNLIIYCRSPDFRSAPRLLCRC 363  
QY 335 LP-----CPRCFRQASLASPSLRTSHSGPRGLSLQVLPLPLPDSDSDS 386  
DB 364 RPEEHLAASPAPRAS-----GAPTALTSPAGMQ-----PEELD----- 398  
QY 387 GGSSGL 392  
DB 399 GASGGL 404

RESULT 4  
US-08-467-559B-9  
Sequence 9, Application US/08467559B  
Patent No. 5928890  
GENERAL INFORMATION:  
APPLICANT: LI, YI  
TITLE OF INVENTION: HUMAN AMINE RECEPTOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN AND FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVENUE, NW, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,559B  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC K

REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0840000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 365 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
US-08-467-559B-9

Query Match 24.1%; Score 553.5; DB 2; Length 365;  
Best Local Similarity 37.8%; Pred. No. 2.9e-34;  
Matches 137; Conservative 56; Mismatches 134; Indels 35; Gaps 12;

QY 7 PTANSTPWAGAGPPSPAGGSGWVAAL--ALCVVIALTAANAALLIALICTQPALRNTSNF 63  
DB 9 PPASLLPASEG--SAPLSQQWTAGMGLVALIVLVVGNVIVVIAKTPRLQTLTNL 66  
QY 64 FLVSLFTSLMVLVMPAMLNALYGRVWLAGLCLLTAFDVMCCSASILNLCISLD 123  
DB 67 FIMSLASADLVMLGLLVVPGATIIVWGRMEYGSFFCELWTSVDVLCVTSIETLCVIALD 126  
QY 124 RYLLTSLPRYKRLMTPLRALALVLAWSLAALASFLPLLLGW--HELGHARPPV--PGQ 179  
DB 127 RYLAITSFPRVQSLLTRARARALVCTWALSALVSFLPLMHWWRASDEARRCVCNDPKC 186  
QY 180 CRLASLPVLVASGLTFPLPSGALCTFYCRILLAAKQAVQVAS----LTTGMSAQAS- 234  
DB 187 CDFVNTNRAIATASSVSVFVPLCTMAFVLYLVRFREAQKVKIDSCERRFLGSPARPPSP 246  
QY 235 ETLOVPRTPRGVESADSR-----RLATKHSRKALKAKUTLGLLGMFFVTLPPFVA 287  
DB 247 EPSPGGPRPADSLANGRSKRPSRLVALUREQALK---TLGLMGVFTLCWLPFLA 303  
QY 288 NIVQAV--CDCTSPGLFDVLTWLYGNCSTNMPFIY---PLFMRDFKRALGRFLPCR---C 340  
DB 304 NVVKAHFDLVDPDLFVFFNMLGVANSFNLIIYCRSP-----DFRKAFQRLCCARRAAC 359  
QY 341 PR 342  
DB 360 RR 361

RESULT 5  
US-08-351-473B-5  
Sequence 5, Application US/08351473B  
Patent No. 5656440  
GENERAL INFORMATION:  
APPLICANT: LENZEN, GERLINDA  
APPLICANT: KAPOOR, ARCHANA  
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MATER & NEUSTADT  
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/351,473B  
FILING DATE: 21-FEB-1995  
CLASSIFICATION: 435

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;
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 93 04670
; FILING DATE: 21-APR-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR94/00447
; FILING DATE: 21-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 6639-001-0X PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-351-473B-5

Query Match 24.1%; Score 552.5; DB 1; Length 400;
Best Local Similarity 35.1%; Pred. No. 3.9e-34;
Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;

QY 5 PGPTANSTPA-WGAGP---PSAPGSG-----WVAALCVVIAL-TAAANSLILALICTQ 54
DB 3 PWFHRNGSLAWSAPILDPISAANTSGLPGVFAAALAGALLATVGGNLLVIAIART 62
QY 55 PALRNTSNFFLVSLFTSDLMVGLVMPPEAMNLYGRWVLARGLCLLWTAQFDMCCSASI 114
DB 63 PRLQITNVFTSLAAADLVVGLLWMPGATLGTGHWPGLGTGCELWTSVDVLCVTASI 122
QY 115 LNLCLISDRYLLILSPRYKLRMTPLRALALVGLWLAALASFLPLLLGHWELG---- 170
DB 123 ETLCALAVDRYLAVTNPLRYGTLTKRRARAAVLVWIVSAVSPAFIMSQWVRVGADE 182
QY 171 ----HARPPVPGQCRLLASLPVLVAGSLTFPLPSGAICTYCRILLAAKQAVOVASLT 226
DB 183 AOECHSNPRC---CSFASNMFPYALLSSVSFYLPLLVMLFYARFVFAKQR-HLLRRE 238
QY 227 TGMASQASSETLOVPTPRP-----GVESADSR--RLATKHSRKALKAKLTGLILL 274
DB 239 LGRFSPPEESPSPSPSPATGTPAAPDGVPPCGRPARLLPLRHRALR---TLGLIM 295
QY 275 GMFFVTWLPFFVANIVQAVC--DCISPGLFVLTWLGVCNSTMPIIY---PLFMRDFKR 329
DB 296 GIFSLCWLFPFLANVIRALAGPSLVPSGVFTALNWLGYANSFNPVYICRSPDFRDAFR 355
QY 330 AL-----GRFLPCPRC---PRERQASLASPSLR--TSHSGRPP 362
DB 356 LLCYSGRGPPEEPRAVTFFPASVPEARQSPFLNRFDEYEGARP 397

RESULT 6
US-08-450-962-4
; Sequence 4, Application US/08450962
; Patent No. 6274706
; GENERAL INFORMATION:
; APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
; APPLICANT: STROBERG, Donny
; TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
; TITLE OF INVENTION: GENES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: KECK, MAHIN & CATE
; STREET: P.O. BOX 06110
; CITY: CHICAGO
; STATE: ILLINOIS
; COUNTRY: U.S.A.
; ZIP: 60606-0110

;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3-1/2" diskette
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/450,962
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/117,829
; FILING DATE: 08-SEPT-1993
; APPLICATION NUMBER: 07/721,571
; FILING DATE: 25-MAY-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR89/00918
; FILING DATE: 25-JAN-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Fleit, Martin; Gollin, Michael A.
; REGISTRATION NUMBER: 16,900; 31,957
; REFERENCE/DOCKET NUMBER: 47078-042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 789-3400
; TELEFAX: (202) 789-1158
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 residues
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: polypeptide
; DESCRIPTION:
;
US-08-450-962-4

Query Match 24.1%; Score 552.5; DB 3; Length 400;
Best Local Similarity 35.1%; Pred. No. 3.9e-34;
Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;

QY 5 PGPTANSTPA-WGAGP---PSAPGSG-----WVAALCVVIAL-TAAANSLILALICTQ 54
DB 3 PWFHRNGSLAWSAPILDPISAANTSGLPGVFAAALAGALLATVGGNLLVIAIART 62
QY 55 PALRNTSNFFLVSLFTSDLMVGLVMPPEAMNLYGRWVLARGLCLLWTAQFDMCCSASI 114
DB 63 PRLQITNVFTSLAAADLVVGLLWMPGATLGTGHWPGLGTGCELWTSVDVLCVTASI 122
QY 115 LNLCLISDRYLLILSPRYKLRMTPLRALALVGLWLAALASFLPLLLGHWELG---- 170
DB 123 ETLCALAVDRYLAVTNPLRYGTLTKRRARAAVLVWIVSAVSPAFIMSQWVRVGADE 182
QY 171 ----HARPPVPGQCRLLASLPVLVAGSLTFPLPSGAICTYCRILLAAKQAVOVASLT 226
DB 183 AOECHSNPRC---CSFASNMFPYALLSSVSFYLPLLVMLFYARFVFAKQR-HLLRRE 238
QY 227 TGMASQASSETLOVPTPRP-----GVESADSR--RLATKHSRKALKAKLTGLILL 274
DB 239 LGRFSPPEESPSPSPSPATGTPAAPDGVPPCGRPARLLPLRHRALR---TLGLIM 295
QY 275 GMFFVTWLPFFVANIVQAVC--DCISPGLFVLTWLGVCNSTMPIIY---PLFMRDFKR 329
DB 296 GIFSLCWLFPFLANVIRALAGPSLVPSGVFTALNWLGYANSFNPVYICRSPDFRDAFR 355
QY 330 AL-----GRFLPCPRC---PRERQASLASPSLR--TSHSGRPP 362
DB 356 LLCYSGRGPPEEPRAVTFFPASVPEARQSPFLNRFDEYEGARP 397

RESULT 7
US-08-450-962-6
; Sequence 6, Application US/08450962
; Patent No. 6274706
; GENERAL INFORMATION:
; APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
; APPLICANT: STROBERG, Donny
```

TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: KECK, MAHIN & CATE  
STREET: P.O. BOX 06110  
CITY: CHICAGO  
STATE: ILLINOIS  
COUNTRY: U.S.A.  
ZIP: 60606-0110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3-1/2" diskette  
COMPUTER: IBM compatible  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/450,962  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/117,829  
FILING DATE: 08-SEPT-1993  
APPLICATION NUMBER: 07/721,571  
FILING DATE: 25-MAY-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/FR89/00918  
FILING DATE: 25-JAN-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Fleit, Martin; Gollin, Michael A.  
REGISTRATION NUMBER: 16,900; 31,957  
REFERENCE/DOCKET NUMBER: 47078-042  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 789-3400  
TELEFAX: (202) 789-1158  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400 residues  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: polypeptide  
DESCRIPTION: polypeptide  
US-08-450-962-6

Query Match 24.1%; Score 552.5; DB 3; Length 400;  
Best Local Similarity 35.1%; Pred. No. 3.9e-34;  
Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;  
QY 5 PGPTANSTPA-WGAGP---PSAPGSG-----WAAALCVVIAL-TAAANSLILALICTQ 54  
DB 3 PWFHNGSLALWSDAPTLDPGAANTSGLPVFWAAALAGALLATATVGNLLVIAIART 62  
QY 55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLANALYGRVWLARGCLLWTAFDVMCCSASI 114  
DB 63 PRLOITNVFVTSIAAADLVVGLLVNPPGATLALTGHVPLGETGCELWTSVDVLCVTASI 122  
QY 115 LNLCLISDRYLLILSPRYKLRMTPLRALALVGLNLSAALASFLPLLGHHELG---- 170  
DB 123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAADVLMVIVSAVSAFAPMSQWVRGADAE 182  
QY 171 ----HARPPVPGQCRLLASLPFLVVASGLTFFLPSGAICFTYCRILLAARQAQVVASLT 226  
DB 193 AQECHNPRC---CSFASNPYALLSSSVSYFLPLLVMFLVYARVFAVAKQR-HLLRRE 238  
QY 227 TQMASQASSETLQVPTPRP-----GVESADSR--RLATKHSRKALKAKTLTGILL 274  
DB 239 LGRFSPESPPSPSPSPATGGTTPAAPDGVPPCCGRRPARLLPLREHRLA---TLGLIM 295  
QY 275 GMEFTVLPFFVANIVQAVC---DCISPLGLEDVLTWLGVCNSMTAPIIV---PLEMRDFKR 329  
DB 296 GIFSLCWLPPFFIANVIRLAAGSLVPSGVFIANLWLGYANAFNPIVLCRSPDFRDAFR 355  
QY 330 AL-----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362

Db 356 LLCYGGGRPERPRAVTPFPASPVEARQSPPLNRFDEYEGARP 397  
RESULT 8  
US-08-848-631-4  
Sequence 4, Application US/08848631  
Patent No. 6635442  
GENERAL INFORMATION:  
APPLICANT: EMORINE, Laurent; MARULLO, Stefano;  
STROBERG, Donny  
TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND  
MOUSE a3-ADRENERGIC RECEPTOR  
GENES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: KECK, MAHIN & CATE  
STREET: P.O. BOX 06110  
CITY: CHICAGO  
STATE: ILLINOIS  
COUNTRY: U.S.A.  
ZIP: 60606-0110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3-1/2" diskette  
COMPUTER: IBM compatible  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/848,631  
FILING DATE: 08-Jun-1999  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/721,571  
FILING DATE: 25-MAY-1990  
APPLICATION NUMBER: PCT/FR89/00918  
FILING DATE: 25-JAN-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Fleit, Martin; Gollin, Michael A.  
REGISTRATION NUMBER: 16,900; 31,957  
REFERENCE/DOCKET NUMBER: 47078-042  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 789-3400  
TELEFAX: (202) 789-1158  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400 residues  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: <Unknown>  
DESCRIPTION: polypeptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-08-848-631-4

Query Match 24.1%; Score 552.5; DB 4; Length 400;  
Best Local Similarity 35.1%; Pred. No. 3.9e-34;  
Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;  
QY 5 PGPTANSTPA-WGAGP---PSAPGSG-----WAAALCVVIAL-TAAANSLILALICTQ 54  
DB 3 PWFHNGSLALWSDAPTLDPGAANTSGLPVFWAAALAGALLATATVGNLLVIAIART 62  
QY 55 PALRNTSNFFLVSLFTSDLMVGLVVMPPAMLANALYGRVWLARGCLLWTAFDVMCCSASI 114  
DB 63 PRLOITNVFVTSIAAADLVVGLLVNPPGATLALTGHVPLGETGCELWTSVDVLCVTASI 122  
QY 115 LNLCLISDRYLLILSPRYKLRMTPLRALALVGLNLSAALASFLPLLGHHELG---- 170  
DB 123 ETLCALAVDRYLAVTNPLRYGTLVTKRRARAADVLMVIVSAVSAFAPMSQWVRGADAE 182  
QY 171 ----HARPPVPGQCRLLASLPFLVVASGLTFFLPSGAICFTYCRILLAARQAQVVASLT 226  
DB 193 AQECHNPRC---CSFASNPYALLSSSVSYFLPLLVMFLVYARVFAVAKQR-HLLRRE 238  
QY 227 TQMASQASSETLQVPTPRP-----GVESADSR--RLATKHSRKALKAKTLTGILL 274

Db 239 LGRFSPSPSPSPSPSPATGTPAAPDGVPPCRRPARLLPLREHRLR---TLGLIM 295  
QY 275 GMFFVTWLPFFVANIVQAVC--DCISPGLEFDVLTWLGVCNSTMNPILY---PLFMRDFKR 329  
Db 296 GIFSCLNLPFFLANVIRALAGSLVPSGVFTALNWLGYANSAFNPVICYKSPDFRDAFR 355  
QY 330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362  
Db 356 LLCYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGVEGARP 397

## RESULT 9

US-08-848-631-6  
; Sequence 6, Application US/08848631  
; Patent No. 6635442  
; GENERAL INFORMATION:  
; APPLICANT: EMORINE, Laurent; MARULLO, Stefano;  
; STROSBURG, Donny  
; TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND  
; MOUSE a3-ADRENERGIC RECEPTOR  
; GENES

## NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:  
; ADDRESSEE: KECK, MAHIN & CATE  
; STREET: P.O. BOX 06110  
; CITY: CHICAGO  
; STATE: ILLINOIS  
; COUNTRY: U.S.A.  
; ZIP: 60606-0110  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3-1/2" diskette  
; COMPUTER: IBM compatible  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: ASCII

## CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/848,631  
; FILING DATE: 08-Jun-1999  
PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/721,571  
; FILING DATE: 25-MAY-1990  
; APPLICATION NUMBER: PCT/FR89/00918  
; FILING DATE: 25-JAN-1989  
ATTORNEY/AGENT INFORMATION:  
; NAME: Fleit, Martin; Gollin, Michael A.  
; REGISTRATION NUMBER: 16,900; 31,957  
; REFERENCE/DOCKET NUMBER: 47078-042  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 789-3400  
; TELEFAX: (202) 789-1158

## INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:  
; LENGTH: 400 residues  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: <unknown>  
; DESCRIPTION: polypeptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-08-848-631-6

Query Match 24.1%; Score 552.5; DB 4; Length 400;  
Best Local Similarity 35.1%; Pred. No. 3.9e-34;  
Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;  
QY 5 PPTANSTPA-WGAGP---PSAPGSG-----WRAALCVVIAL-TAAANSLILALICTQ 54  
Db 3 PPHRNGSLALMSDAPTLDPSSANTSGLVGVPMWAAALAGALLATVGGNLLVIAIART 62  
QY 55 PALRNTSPFLVSLFTSDLMVGLVYVMPAMLNALYGRVNLARGCLLMTAFDVMCCSASI 114  
Db 63 PRLOITINVEVTSLAADLVGLLVYVMPGATLALGHVPLGETGCELWTSVDVLCVTASI 122  
QY 115 LNLCLISLDRIYLLISPLRYKLRMTPLRALALVGCANSLAALASPLPILLGWHLG---- 170

Db 123 ETLCALAVDRYLVANTPLRYGLTVTKRRARAVALVLIWIVSAVSPATMSQWNRVGDAAE 182  
QY 171 ----HARPPVPOCRLLASLPVLVAGSLTEFLPSGAICFTYCRILLAAKQAVOVASIT 226  
Db 183 AOECHSNPRC---CSFASNPYALLUSSVSFLLPLLVWLFFVYARVFFVAKQR--HLRRE 238  
QY 227 TGMASQASSETLOVPRTPRP-----GVESADSR--RLATKHSRKALKAKLTGILL 274  
Db 239 LGRFSPSPSPSPSPSPATGTPAAPDGVPPCRRPARLLPLREHRLR---TLGLIM 295  
QY 275 GMFFVTWLPFFVANIVQAVC--DCISPGLEFDVLTWLGVCNSTMNPILY---PLFMRDFKR 329  
Db 296 GIFSCLNLPFFLANVIRALAGSLVPSGVFTALNWLGYANSAFNPVICYKSPDFRDAFR 355  
QY 330 AL----GRFLPCPRC---PRERQASLASPSLR--TSHSGPRP 362  
Db 356 LLCYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGVEGARP 397

## RESULT 10

US-07-626-618A-21  
; Sequence 21, Application US/07626618A  
; Patent No. 5422265  
; GENERAL INFORMATION:  
; APPLICANT: Van Tol, Hubert H.M.  
; APPLICANT: Civelli, Olivier  
; TITLE OF INVENTION: A No. 5422265el Human Dopamine Receptor and Uses  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Allegretti & Witcoff, Ltd.  
; STREET: 10 South Wacker Drive, Suite 3000  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/626,618A  
; FILING DATE: 7 DEC 1990

CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: No. 5422265nan, Kevin E  
; REGISTRATION NUMBER: 35,303  
; REFERENCE/DOCKET NUMBER: 90,1092  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-715-1000  
; TELEFAX: 312-715-1234  
; TELEX: 810-221-8317

## INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:  
; LENGTH: 446 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
US-07-626-618A-21

Query Match 24.1%; Score 552.5; DB 1; Length 446;  
Best Local Similarity 31.2%; Pred. No. 4.3e-34;  
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;  
QY 21 SAPGSGGWY-----AAALCVVIALTAANSLILALICTQFALRN-TSNFPLVSL 68  
Db 7 SAMDGTGLVVERDFSVRLITACFLSLILLTLGNTLVCAAVIRFHLRSKVTNFFVISL 66  
QY 69 FTSDLMVGLVYVMPAMLNALYGRVNLARGCLLMTAFDVMCCSASILNCLISLDRIYLLI 128  
Db 67 AVSDLLVAVVMPWPKVAEIAGFNFFG-SFCNIWVAFDVMCTASILNCLVISVDRIYWI 125

129 LSPURYKLRMTPLRALALVLAWSLAALASFLPLLGLHGHARPPVPG-----178  
126 SSPFRYERKMTPKAAFTLISAVMTLSLISFIPVQLSWHK--AKTSPSDGNATSLAET 182  
179 --QCELLASLPFLVAGSLTFELPSGAICFTYCRILLAAKQAVQVAVSL--TTGMAQSAE 235  
183 INDCDSLSLTYAISSSVISFYIPVAMIVTYTRIYIAQKQIRRAALERAHVHAKNCQ 242  
236 TLQVPRTPRGVSADSRRLATKHSRKALKAKUTLGLLGMFFVFWLPPFFVANIQAACD 295  
243 TTTGNGKPVCSQPESSFKMSFKRETKVLK--TSLVINGVFCVCCWLPFFILNCILPFCG 299  
296 -----CISPLGLFDVLTWLGVCNSTWNPPIIYPLFMRDKALGRFLPCPR-CPREROA- 346  
300 SGETQPCIDSNFTFVFWFGWANSLSNPIIY-AFNADFRKAFSTLLCKEEAAGIARPLEKLS 358  
347 -----SLASPSLRTSHSGPRGSLQOVLPLPLPPDSDDSDAGSGGSLRLTAQLLLP 401  
359 ETVSINNGAAMFSSHHEPRGSIKECNLVLIPIHVAVGSSDDLKKEEAAGIARPLEKLS 418  
402 GEATQDPPPLPTRAANAANFNIDPAEPLRP-----HP 434  
419 -----ALSVILDYDTDVSLKIQITONGQHP 445

## RESULT 11

US-08-333-977-21  
; Sequence 21, Application US/08333977  
; Patent No. 5594108  
; GENERAL INFORMATION:  
; APPLICANT: Van Tol, Hubert H.M.  
; APPLICANT: Civelli, Olivier  
; TITLE OF INVENTION: A No. 5594108e1 Human Dopamine Receptor and Uses  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Allegretti & Witcoff, Ltd.  
; STREET: 10 South Wacker Drive, Suite 3000  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/333,977  
; FILING DATE: 03-NOV-1994  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/626,618  
; FILING DATE: 7 DEC 1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: No. 5594108nan, Kevin E  
; REGISTRATION NUMBER: 35,303  
; REFERENCE/DOCKET NUMBER: 90,1092  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-715-1000  
; TELEFAX: 312-715-1234  
; TELEX: 810-221-8317  
; INFORMATION FOR SEQ ID NO: 21:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 446 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
US-08-333-977-21

Query Match 24.1%; Score 552.5; DB 1; Length 446;  
Best Local Similarity 31.2%; Fred. No. 4.3e-34;  
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

21 SAPGSGWV-----AAALCVVIALTAANSLLIALICTQPALRN-TSFFLVSL 68  
7 SAMDGTGLVVERDSVRILTACFLSLLILSTLLGNTLVCAAVIRFHLRSKVTNFFVISL 66  
69 FTSDLVGLVWVPPAMLANALGRVLAAGLCLLWTAEDVMCCSASILNCLISLDYLLI 128  
67 AVSDLVAVLVWVPAVAEIAAGFWFFG-SFCNIWVAFDIMCTASILNCLVISVDYWAI 125  
129 LSPLEYKLRMTPLRALALVLAWSLAALASFLPLLGLHGHARPPVPG-----178  
126 SSPFRYERKMTPKAAFTLISAVMTLSLISFIPVQLSWHK--AKTSPSDGNATSLAET 182  
179 --QCELLASLPFLVAGSLTFELPSGAICFTYCRILLAAKQAVQVAVSL--TTGMAQSAE 235  
183 INDCDSLSLTYAISSSVISFYIPVAMIVTYTRIYIAQKQIRRAALERAHVHAKNCQ 242  
236 TLQVPRTPRGVSADSRRLATKHSRKALKAKUTLGLLGMFFVFWLPPFFVANIQAACD 295  
243 TTTGNGKPVCSQPESSFKMSFKRETKVLK--TSLVINGVFCVCCWLPFFILNCILPFCG 299  
296 -----CISPLGLFDVLTWLGVCNSTWNPPIIYPLFMRDKALGRFLPCPR-CPREROA- 346  
300 SGETQPCIDSNFTFVFWFGWANSLSNPIIY-AFNADFRKAFSTLLCKEEAAGIARPLEKLS 358  
347 -----SLASPSLRTSHSGPRGSLQOVLPLPLPPDSDDSDAGSGGSLRLTAQLLLP 401  
359 ETVSINNGAAMFSSHHEPRGSIKECNLVLIPIHVAVGSSDDLKKEEAAGIARPLEKLS 418  
402 GEATQDPPPLPTRAANAANFNIDPAEPLRP-----HP 434  
419 -----ALSVILDYDTDVSLKIQITONGQHP 445

## RESULT 12

US-07-916-901-6  
; Sequence 6, Application US/07916901  
; Patent No. 5364772  
; GENERAL INFORMATION:  
; APPLICANT: Granneman, James G.  
; APPLICANT: Labners, Kristine N.  
; APPLICANT: Rao, Donald D.  
; TITLE OF INVENTION: @ @3-ADRENERGIC RECEPTOR PROTEIN AND DNA  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: REISING, ETHINGTON, BARNARD, PERRY &  
; STREET: 201 W. Big Beaver - Ste. 400; P.O. Box 4390  
; CITY: Troy  
; STATE: Michigan  
; COUNTRY: USA  
; ZIP: 48099  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/916,901  
; FILING DATE: 19920720  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kohn, Kenneth I.  
; REGISTRATION NUMBER: 30,955  
; REFERENCE/DOCKET NUMBER: P-324 (WSU)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (313) 689-3554  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 400 amino acids  
; TYPE: AMINO ACID  
; TOPOLOGY: linear



MOLECULE TYPE: protein  
US-07-916-901-6

Query Match 24.1%; Score 551.5; DB 1; Length 400;  
Best Local Similarity 35.3%; Pred. No. 4.6e-34;  
Matches 142; Conservative 61; Mismatches 148; Indels 51; Gaps 15;

QY 5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAALCVVIAL-TAAANSLILALICTQ 54  
DB 3 PWPBKNGSLAFWSDAFTLDPSSAANTSLPGVPMALALAGALLATVGGNLLVITAIART 62  
QY 55 PALRNTSNFFLVSTSLDMVGLVMPMPAMNLYGRWVLRGLCLLWTAFAFDMCCSASI 114  
DB 63 PRLOITINVTSLATADLVGLVMPGATLALTGHWPLGATGCELTWSVDVLCVTASI 122  
QY 115 LNLCLISDRYLLILSLPIRYKLRMTPLRALALVIGAWSLAALASFLPLLGHWBLG---- 170  
DB 123 ETLICALAVDRYLAVTNPLRYGLTKRRARAAYVVLWIVSATVSPAFINSQWVRVGADAE 182  
QY 171 ----HARPPVPGQCRLLASLPFLVAGSLTFFLPSPGAICTFYCRILLAAKQAVQVSLT 226  
DB 183 AQECHSNPRC---CSFASNMPYALLSSVSFYLLVLMVLYARVFAVAKQRRLRRE 238  
QY 227 TGMASQASSETLOVPRTRP-----GVESADSR--RLATKHSRKALKAKLTIGILL 274  
DB 239 LGRFPPEESPRSPSRSPATVGTPTASDGVPSGCRPARLLPLGEHRLR---TLGLIM 295  
QY 275 GMFFVTWLPFFVANIVQAVC--DCISPGLEDVLTWLGVCNSTMNPYY---PLFMRDPKR 329  
DB 296 GIFSLCWLPFFLANVLRALVGLPSLVPSGVFIALNWLGYANSFNLICRSPDFRDAFR 355  
QY 330 AL-----GRFLPCPRC---PRERQASLASPSLR--TSHSGRPP 362  
DB 356 LLCYGRGPBPVRVTFPPASPVASRQNSPLNRFDGYEGERP 397

## RESULT 13

US-07-783-602C-1  
Sequence 1, Application US/07783602C  
Patent No. 5418160  
GENERAL INFORMATION:  
APPLICANT: J. Craig Venter et al  
TITLE OF INVENTION: A PAT CELL SPECIFIC a-ADRENERGIC RECEPTOR  
TITLE OF INVENTION: RECEPTOR  
NUMBER OF SEQUENCES: 1  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lowe, Price, Leblanc & Becker  
STREET: Suite 300, 99 Canal Center Plaza  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22314  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: DOS Text File  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/783.602C  
FILING DATE: 19911101  
CLASSIFICATION: 436  
ATTORNEY/AGENT INFORMATION:  
NAME: J.G. Mullins  
REGISTRATION NUMBER: 33073  
REFERENCE/DOCKET NUMBER: 717-098  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703 684 1111  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400  
TYPE: AMINO ACID  
STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: Polypeptide  
US-07-783-602C-1

Query Match 24.1%; Score 551.5; DB 1; Length 400;  
Best Local Similarity 35.8%; Pred. No. 4.6e-34;  
Matches 144; Conservative 61; Mismatches 146; Indels 51; Gaps 15;

QY 5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAALCVVIAL-TAAANSLILALICTQ 54  
DB 3 PWPBKNGSLAFWSDAFTLDPSSAANTSLPGVPMALALAGALLATVGGNLLVITAIART 62  
QY 55 PALRNTSNFFLVSTSLDMVGLVMPMPAMNLYGRWVLRGLCLLWTAFAFDMCCSASI 114  
DB 63 PRLOITINVTSLATADLVGLVMPGATLALTGHWPLGATGCELTWSVDVLCVTASI 122  
QY 115 LNLCLISDRYLLILSLPIRYKLRMTPLRALALVIGAWSLAALASFLPLLGHWBLG---- 170  
DB 123 ETLICALAVDRYLAVTNPLRYGLTKRRARAAYVVLWIVSATVSPAFINSQWVRVGADAE 182  
QY 171 ----HARPPVPGQCRLLASLPFLVAGSLTFFLPSPGAICTFYCRILLAAKQAVQV--- 222  
DB 183 AQECHSNPRC---CSFASNMPYALLSSVSFYLLVLMVLYARVFAVAKQRFRVREL 239  
QY 223 -----ASLTGMASQASSETLOVPRTRP--PGVESADSR--RLATKHSRKALKAKLTIGILL 274  
DB 240 GRFPPEESPRSPSRSPATVGTPTASDGVPSGCRPARLLPLGEHRLR---TLGLIM 295  
QY 275 GMFFVTWLPFFVANIVQAVC--DCISPGLEDVLTWLGVCNSTMNPYY---PLFMRDPKR 329  
DB 296 GIFSLCWLPFFLANVLRALVGLPSLVPSGVFIALNWLGYANSFNLICRSPDFRDAFR 355  
QY 330 AL-----GRFLPCPRC---PRERQASLASPSLR--TSHSGRPP 362  
DB 356 LLCYGRGPBPVRVTFPPASPVASRQNSPLNRFDGYEGERP 397

## RESULT 14

US-08-351-473B-4  
Sequence 4, Application US/08351473B  
Patent No. 5656440  
GENERAL INFORMATION:  
APPLICANT: LENZEN, GERLINDA  
APPLICANT: KAPOOR, ARCHANA  
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS  
TITLE OF INVENTION: BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT  
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/351,473B  
FILING DATE: 21-FEB-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 93 04670  
FILING DATE: 21-APR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/FR94/00447  
FILING DATE: 21-APR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORMAN F.  
REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 6639-001-0X PCT  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 400 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-351-473B-4

Query Match 24.1%; Score 551.5; DB 1; Length 400;  
Best Local Similarity 35.1%; Pred. No. 4.6e-34;  
Matches 141; Conservative 62; Mismatches 148; Indels 51; Gaps 15;

QY 5 PGPTANSTPA-WGAGP---PSAPGGSG-----WVAALCVVIAL-TAAANSLLIALICTQ 54  
DB 3 PPHKNGSLAFWSDATLTDSANTSGLPVPAALAGALLATVGGNLLVITAIART 62  
QY 55 PALRNTSNFVLSTDLMLVGLVMPAMNLYGRWVLARGCLLLTAFDVMCCSASI 114  
DB 63 PRLOTITNVFVSLATADLVGLLVMPGATLITGHVPLGATGCELWTSVDVLCVTASI 122  
QY 115 LNLCLISLDREYLLILSPRYKLRMTPLRALALVGLWSLAALASFLPLLGHWELG---- 170  
DB 123 ETLCALADRYLAVTNPLRYGLTLTKRRARAALVLMIVSATVSPAPIMSQWRVYGADAE 182  
QY 171 ----HARPPVPGCRLLASLPFVLVAGSLTFFLPSCAICTFYCRILLAAARKQAVVASLT 226  
DB 183 AQECHSNPRC---CSPASNMPYALLSSVSFYLPLVLMFVVARVFAVAKROR-RLLRRE 238  
QY 227 TGMASQASSETLQVPRTPR-----GVESADSR--RLATKHSRKALKAKLTIGILL 274  
DB 239 LGRFPPEESPRSRSPSPATVGTPTASDGVSPCGERRPARLLPLGHEHRLR---TIGLIM 295  
QY 275 GMEFFVTLPPFVANIVOAVC--DCISPGFLDVLTLWLYCNSNTWNPITY---PLEMRDPKR 329  
DB 296 GIFSCLWLPFFLANVIRALVGPLSLVSGVFIALNWLGYANSFNPILYICRSPDFRDAFR 355  
QY 330 AL-----GRFLPCPRC---PREROASLASPSLR--TSHSGFRP 362  
DB 356 LLCYGGRGPEEPVRVTFPASPVPASRQNSPLNRFDCYGERP 397

## RESULT 15

US-08-444-734A-4  
Sequence 4, Application US/08444734A  
Patent No. 5610282

GENERAL INFORMATION:  
APPLICANT: Sibley, David R.

APPLICANT: Monsma, Frederick J.

APPLICANT: Mahan, Lawrence C.

APPLICANT: McVittie, Loris D.

TITLE OF INVENTION: cDNA encoding the rat D1 dopamine

TITLE OF INVENTION: receptor linked to adenylyl cyclase activation and

TITLE OF INVENTION: expression of the receptor protein in plasmid-transfected

TITLE OF INVENTION: cell lines

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADDRESSEE: Knobbe, Martens, Olson and Bear

STREET: 620 Newport Center Drive, Sixteenth Floor

CITY: Newport Beach

STATE: CA

COUNTRY: USA

ZIP: 92660

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/444,734A

FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/029,917  
FILING DATE: 03-MAR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/548,714  
FILING DATE: 06-JUL-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Altman, Daniel E.  
REGISTRATION NUMBER: 34,115  
REFERENCE/DOCKET NUMBER: NIH065.001FW1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (714) 760-0404  
TELEFAX: (714) 760-9502  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 477 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: internal  
US-08-444-734A-4

## Query Match

24.0%; Score 551; DB 1; Length 477;

Best Local Similarity 33.8%; Pred. No. 6.1e-34;

Matches 144; Conservative 66; Mismatches 170; Indels 46; Gaps 11;

QY 1 MYPEPGTANSTPAWGAGPSPAGSGSWAAALCVVIALTAANAALLIALICTQPALRNT 60  
DB 33 LVPAASPALLPPASEPPELSQQWTAGMLLMALTELLIVAGNVLVIAKTPRLQTL 92  
QY 61 SNFFVLSTDLMLVGLVMPAMNLYGRWVLARGCLLLTAFDVMCCSASILNLCI 120  
DB 93 TNLIMSLASADLVGMLLVVFPFGATVVGWRWEGSFCELTWSDVLCVTASIEITCVI 152  
QY 121 SLDRYLILSPRYKLRMTPLRALALVGLWSLAALASFLPLLGLW--HELGHARPPV-- 176  
DB 153 ALDRYLATISPPRYQSLLTRARARGLVCTVMAISALVSFLPILMHMWRAESDEARRCYND 212  
QY 177 PGQRLLASLPFVLVAGSLTFFLPSCAICTFYCRILLAAARKQAVVAS----LTTGMASQ 232  
DB 213 PKCDFVTNRAYAIASVSVFYPLCLIMAFYLRVRFRAQKQVKKIDSCERRFLGGPAP 272  
QY 233 ASET-----LQVPTPTREFVESADS-----RLATKHSRKALKAKLTIGIL 273  
DB 273 PPSFSPVPAPAPPPGPPRPAATAATAPLANGRAGKRPSRLVALREQALK---TLGII 329  
QY 274 LGMEFFVTLPPFVANIVOAV-CDCISPGFLDVLTLWLYCNSNTWNPITY---PLFMRDPKR 329  
DB 330 MGVEFTLCWLPFFLANVIRALVGPLSLVSGVFIALNWLGYANSFNPILYICRSP----DFRK 385  
QY 330 ALGRFLPCPRCPRERQASLASPSLRTSHSGFRPGLSLQVVLPLFLP--PDSDSDSDSGSGG 388  
DB 386 AFQGLLCCARRAARRRHATHGDRFRASGCLARPG-----PPSPGGAASDDDDDDVVGA 438  
QY 389 SSGRLR 394  
DB 439 TTPARL 444

Search completed: May 7, 2004, 13:21:09

Job time : 24 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 7, 2004, 13:20:05 ; Search time 48 Seconds  
(without alignments)  
2544.362 Million cell updates/sec

Title: US-09-826-509-449  
Perfect score: 2292  
Sequence: 1 MVPEPGTANSTPWAGAGPP.....FNIDPAEPRLPHLPIPTN 440

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1140673 seqs, 277566755 residues

Total number of hits satisfying chosen parameters: 1140673

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
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15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
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17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	2292	100.0	440 11	US-09-826-509-449 Sequence 449, App
2	2287	99.8	440 14	US-10-225-567A-20 Sequence 20, Appl
3	2287	99.8	440 14	US-10-345-680-41 Sequence 41, Appl
4	1839.5	82.9	437 9	US-09-829-631A-8 Sequence 8, Appl
5	1768.5	77.2	439 9	US-09-829-631A-13 Sequence 13, Appl
6	1387	60.5	291 9	US-09-829-631A-10 Sequence 10, Appl
7	557	24.3	477 14	US-10-225-567A-50 Sequence 50, Appl
8	557	24.3	477 15	US-10-295-027-716 Sequence 716, App
9	557	24.3	477 15	US-10-295-027-885 Sequence 885, App
10	553.5	24.1	365 12	US-09-888-745-9 Sequence 9, Appl
11	552.5	24.1	400 9	US-09-895-211-4 Sequence 4, Appl
12	552.5	24.1	400 9	US-09-895-211-6 Sequence 6, Appl
13	552.5	24.1	446 14	US-10-225-567A-98 Sequence 98, Appl
14	552.5	24.1	446 14	US-10-299-642-2 Sequence 2, Appl
15	552.5	24.1	446 14	US-10-299-642-4 Sequence 4, Appl

16	552.5	24.1	446 14	US-10-299-642-6	Sequence 6, Appl
17	552.5	24.1	446 15	US-10-292-798-628	Sequence 628, App
18	551.5	24.1	446 11	US-09-826-509-487	Sequence 487, App
19	548.5	23.9	446 14	US-10-299-642-16	Sequence 16, Appl
20	547.5	23.9	446 14	US-10-277-078-4	Sequence 4, Appl
21	538.5	23.5	446 14	US-10-299-642-32	Sequence 32, Appl
22	535.5	23.4	428 12	US-10-092-771-8	Sequence 8, Appl
23	535	23.3	445 14	US-10-299-642-28	Sequence 28, Appl
24	533.5	23.3	446 14	US-10-299-642-22	Sequence 22, Appl
25	531.5	23.2	446 12	US-10-205-331-4	Sequence 4, Appl
26	531.5	23.2	446 14	US-10-299-642-20	Sequence 20, Appl
27	531	23.2	408 9	US-09-895-211-5	Sequence 5, Appl
28	531	23.2	408 14	US-10-225-567A-54	Sequence 54, Appl
29	531	23.2	408 15	US-10-295-027-691	Sequence 691, App
30	530.5	23.1	446 14	US-10-299-642-30	Sequence 30, Appl
31	528.5	23.1	463 12	US-10-092-771-5	Sequence 5, Appl
32	523.5	22.8	391 10	US-09-992-238-25	Sequence 25, Appl
33	523.5	22.8	391 12	US-10-092-771-4	Sequence 4, Appl
34	523.5	22.8	391 15	US-10-436-715-53	Sequence 53, Appl
35	520	22.7	408 9	US-09-895-211-2	Sequence 2, Appl
36	515.5	22.5	382 9	US-09-993-844-5	Sequence 5, Appl
37	512.5	22.4	146 9	US-09-829-631A-11	Sequence 11, Appl
38	511.5	22.3	445 12	US-10-092-771-7	Sequence 7, Appl
39	508.5	22.2	394 9	US-09-993-844-7	Sequence 7, Appl
40	507.5	22.1	560 14	US-10-238-129-8	Sequence 8, Appl
41	507.5	22.1	560 14	US-10-238-667-8	Sequence 8, Appl
42	505.5	22.1	562 10	US-09-992-238-14	Sequence 14, Appl
43	503	21.9	572 10	US-09-992-238-13	Sequence 13, Appl
44	503	21.9	572 14	US-10-185-991-2	Sequence 2, Appl
45	503	21.9	572 14	US-10-238-129-2	Sequence 2, Appl

## ALIGNMENTS

### RESULT 1

US-09-826-509-449  
; Sequence 449, Application US/09826509  
; Publication No. US20030204073A1  
; GENERAL INFORMATION:  
; APPLICANT: Lehmann-Bruinsma, Karin  
; APPLICANT: Liaw, Chen W.  
; APPLICANT: Lin, I-Lin  
; TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known  
; TITLE OF INVENTION: Protein-Coupled Receptors  
; FILE REFERENCE: AREN-207  
; CURRENT APPLICATION NUMBER: US/09/826,509  
; CURRENT FILING DATE: 2001-04-05  
; PRIOR APPLICATION NUMBER: 60/195,747  
; PRIOR FILING DATE: 2000-04-07  
; PRIOR APPLICATION NUMBER: 09/170,496  
; PRIOR FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 589  
; SOFTWARE: PatentIn Version 2.1  
; SEQ ID NO 449  
; LENGTH: 440  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-826-509-449

Query Match 100.0%; Score 2292; DB 11; Length 440;  
Best Local Similarity 100.0%; Pred. No. 5.2e-177;  
Matches 440; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MVPEPGTANSTPWAGAGPPSAPGSGWVAALCVVIALTAANSLIALICTOPALNT 60  
DB 1 MVPEPGTANSTPWAGAGPPSAPGSGWVAALCVVIALTAANSLIALICTOPALNT 60  
QY 61 SNFFVLSFTSGLMVLGVVMPAMNLYGRVWLTARGLCLLWTAFDVNCCSASINLCII 120  
DB 61 SNFFVLSFTSGLMVLGVVMPAMNLYGRVWLTARGLCLLWTAFDVNCCSASINLCII 120  
QY 121 SLDRLYLILSLRYKLRMTPLRALALVLGANSLAALASFLPLLGLWHELGHARPEVPPQC 180

Db 121 SLDYLLILSPYKLRMTPLRALALVGLWSLAALASFLPLLGHGELHARPPVPGQC 180  
Qy 181 RLLASLPVLVASGLTFPLPSGAICFTYCRILLAAKQAVQVASTTGMASQASSETLQVP 240  
Db 181 RLLASLPVLVASGLTFPLPSGAICFTYCRILLAAKQAVQVASTTGMASQASSETLQVP 240  
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Db 241 RTRPGVESADSRRLATKHSRKALKAKLTGILLGMFFVTWLPFFVANIQAACDCISPG 300  
Qy 301 LFDVLTWLYCNSMTNPIIYPLFMRDKRALGRFLPCRCRPRERQASLASPSLRTSHSGP 360  
Db 301 LFDVLTWLYCNSMTNPIIYPLFMRDKRALGRFLPCRCRPRERQASLASPSLRTSHSGP 360  
Qy 361 RPLSLQOVLPLPLPPDSDDSDAGSGSGSLRLTAQLLLPGEATODPPLPTAAAAVNF 420  
Db 361 RPLSLQOVLPLPLPPDSDDSDAGSGSGSLRLTAQLLLPGEATODPPLPTAAAAVNF 420  
Qy 421 FNIDPAPELPHPLGIPTN 440  
Db 421 FNIDPAPELPHPLGIPTN 440  
RESULT 2  
US-10-225-567A-20  
; Sequence 20, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: Lifespan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burner, Glenna C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225.567A  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: Patent version 3.1  
; SEQ ID NO 20  
; LENGTH: 440  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-20  
Query Match 99.8%; Score 2287; DB 14; Length 440;  
Best Local Similarity 99.8%; Pred. No. 1.3e-176;  
Matches 439; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 MVPEPGPTANSTPWAGGPPSAPGSGGWAAALCVIALTAANSLIALLICTOPALRNT 60  
Db 1 MVPEPGPTANSTPWAGGPPSAPGSGGWAAALCVIALTAANSLIALLICTOPALRNT 60  
Qy 61 SNFVLVSFTSGLVMVGLVMPAMNLYGRWLARGCLLWTAFTDVWCCSASILNLCI 120  
Db 61 SNFVLVSFTSGLVMVGLVMPAMNLYGRWLARGCLLWTAFTDVWCCSASILNLCI 120  
Qy 121 SLDYLLILSPYKLRMTPLRALALVGLWSLAALASFLPLLGHGELHARPPVPGQC 180  
Db 121 SLDYLLILSPYKLRMTPLRALALVGLWSLAALASFLPLLGHGELHARPPVPGQC 180  
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Db 181 RLLASLPVLVASGLTFPLPSGAICFTYCRILLAAKQAVQVASTTGMASQASSETLQVP 240  
Qy 241 RTRPGVESADSRRLATKHSRKALKAKLTGILLGMFFVTWLPFFVANIQAACDCISPG 300  
Db 241 RTRPGVESADSRRLATKHSRKALKAKLTGILLGMFFVTWLPFFVANIQAACDCISPG 300  
Qy 301 LFDVLTWLYCNSMTNPIIYPLFMRDKRALGRFLPCRCRPRERQASLASPSLRTSHSGP 360

Db 301 LFDVLTWLYCNSMTNPIIYPLFMRDKRALGRFLPCRCRPRERQASLASPSLRTSHSGP 360  
Qy 361 RPLSLQOVLPLPLPPDSDDSDAGSGSGSLRLTAQLLLPGEATODPPLPTAAAAVNF 420  
Db 361 RPLSLQOVLPLPLPPDSDDSDAGSGSGSLRLTAQLLLPGEATODPPLPTAAAAVNF 420  
Qy 421 FNIDPAPELPHPLGIPTN 440  
Db 421 FNIDPAPELPHPLGIPTN 440  
RESULT 3  
US-10-345-680-41  
; Sequence 41, Application US/10345680  
; Publication No. US20030148394A1  
; GENERAL INFORMATION:  
; APPLICANT: Millennium Pharmaceuticals, Inc.  
; APPLICANT: Sinos-Santiago, Inmaculada  
; APPLICANT: Venkateswarlu, Karicheti  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING  
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,  
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,  
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.  
; FILE REFERENCE: MPI02-012P1RNM OMNI  
; CURRENT APPLICATION NUMBER: US/10/345.680  
; CURRENT FILING DATE: 2003-01-16  
; PRIOR APPLICATION NUMBER: US 60/349,511  
; PRIOR FILING DATE: 2002-01-18  
; PRIOR APPLICATION NUMBER: US 60/360,500  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/365,041  
; PRIOR FILING DATE: 2002-03-15  
; PRIOR APPLICATION NUMBER: US 60/374,063  
; PRIOR FILING DATE: 2002-04-19  
; PRIOR APPLICATION NUMBER: US 60/403,468  
; PRIOR FILING DATE: 2002-08-14  
; PRIOR APPLICATION NUMBER: US 60/414,262  
; PRIOR FILING DATE: 2002-09-27  
; PRIOR APPLICATION NUMBER: US 60/419,986  
; PRIOR FILING DATE: 2002-10-21  
; PRIOR APPLICATION NUMBER: US 60/423,809  
; PRIOR FILING DATE: 2002-11-05  
; PRIOR APPLICATION NUMBER: US 60/429,797  
; PRIOR FILING DATE: 2002-11-26  
; NUMBER OF SEQ ID NOS: 66  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 41  
; LENGTH: 440  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
US-10-345-680-41  
Query Match 99.8%; Score 2287; DB 14; Length 440;  
Best Local Similarity 99.8%; Pred. No. 1.3e-176;  
Matches 439; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 MVPEPGPTANSTPWAGGPPSAPGSGGWAAALCVIALTAANSLIALLICTOPALRNT 60  
Db 1 MVPEPGPTANSTPWAGGPPSAPGSGGWAAALCVIALTAANSLIALLICTOPALRNT 60  
Qy 61 SNFVLVSFTSGLVMVGLVMPAMNLYGRWLARGCLLWTAFTDVWCCSASILNLCI 120  
Db 61 SNFVLVSFTSGLVMVGLVMPAMNLYGRWLARGCLLWTAFTDVWCCSASILNLCI 120  
Qy 121 SLDYLLILSPYKLRMTPLRALALVGLWSLAALASFLPLLGHGELHARPPVPGQC 180  
Db 121 SLDYLLILSPYKLRMTPLRALALVGLWSLAALASFLPLLGHGELHARPPVPGQC 180  
Qy 181 RLLASLPVLVASGLTFPLPSGAICFTYCRILLAAKQAVQVASTTGMASQASSETLQVP 240  
Db 181 RLLASLPVLVASGLTFPLPSGAICFTYCRILLAAKQAVQVASTTGMASQASSETLQVP 240  
Qy 241 RTRPGVESADSRRLATKHSRKALKAKLTGILLGMFFVTWLPFFVANIQAACDCISPG 300

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Db 241 RTPRGVESADSRRLATKSKKALKASLTGILLGMFFVTWLPFFVANIVQAVCDICSPG 300
Qy 301 LFDVLTWLGVCNSTMNPPIIYPLFMRDKRALGRFLPCPCPRERQASLASPSLRTSHSGP 360
Db 301 LFDVLTWLGVCNSTMNPPIIYPLFMRDKRALGRFLPCPCPRERQASLASPSLRTSHSGP 360
Qy 361 RPLGLSQVLPPLPPDSDSDSDAGSGSGSLRLTAQLLLPGBATQDPPPLPTRAANAANF 420
Db 361 RPLGLSQVLPPLPPDSDSDSDAGSGSGSLRLTAQLLLPGBATQDPPPLPTRAANAANF 420
Qy 421 FNIDPAPELRPHPLGIPTN 440
Db 421 FNIDPAPELRPHPLGIPTN 440

RESULT 4
US-09-829-631A-8
; Sequence 8, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
; APPLICANT: Sibley, David R.
; APPLICANT: Monsma, Frederick J.
; APPLICANT: Hamblin, Mark
; TITLE OF INVENTION: The ST-B17 Serotonin Receptor
; FILE REFERENCE: NIH047.1CPI1
; CURRENT APPLICATION NUMBER: US/09/829,631A
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 08/428,242
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 437
; TYPE: PRT
; ORGANISM: Rat
; ORGANISM: Rat
US-09-829-631A-8

Query Match 82.9%; Score 1899.5; DB 9; Length 437;
Best Local Similarity 84.5%; Pred. No. 2.9e-145; Indels 13; Gaps 4;
Matches 376; Conservative 11; Mismatches 45;

Qy 1 MYPEPGTANSTPAWGAGPPSPAGSGWVAALCVVLTAAANSLLIATCTQPALRNT 60
Db 1 MYPEPGVNSTPAWGPPPPAPGSGWVAALCVVLTAAANSLLIATCTQPAVRNT 60
Qy 61 SNFFLVSLFTSDLMVGLVMPVPMALNLYGRWVLARGCLLWTAFDVMCCSASILNLCII 120
Db 61 SNFFLVSLFTSDLMVGLVMPVPMALNLYGRWVLARGCLLWTAFDVMCCSASILNLCII 120
Qy 121 SLDRYLLILSPRYKLRMTPLRALALVIGWLSAALASFLPILLGWHELGHARPPVPGQC 180
Db 121 SLDRYLLILSPRYKLRMTAPRALALVIGWLSAALASFLPILLGWHELGKARTPAPGC 180
Qy 181 RLLASLPFVLVASGLTFFLPSCAICFYCYRILLAAKQAVQVASLTGMAQASSETLQVP 240
Db 181 RLLASLPFVLVASGLTFFLPSCAICFYCYRILLAAKQAVQVASLTGMAQASSETLQVP 240
Qy 241 RTPRGVESADSRRLATKSKKALKASLTGILLGMFFVTWLPFFVANIVQAVCDICSPG 300
Db 241 RTPRGVESADSRRLATKSKKALKASLTGILLGMFFVTWLPFFVANIVQAVCDICSPG 300
Qy 301 LFDVLTWLGVCNSTMNPPIIYPLFMRDKRALGRFLPCPCPRERQASLASPSLRTSHSGP 360
Db 301 LFDVLTWLGVCNSTMNPPIIYPLFMRDKRALGRFLPCPCPRERQASLASPSLRTSHSGP 360
Qy 421 FNIDPAPELRPHPLGIPTN 440
Db 421 FNIDPAPELRPHPLGIPTN 440
Qy 301 LFDVLTWLGVCNSTMNPPIIYPLFMRDKRALGRFLPCPCPRERQASLASPSLRTSHSGP 360
Db 301 LFDVLTWLGVCNSTMNPPIIYPLFMRDKRALGRFLPCPCPRERQASLASPSLRTSHSGP 360
Qy 356 SHSGPRGLSLQVLPPLPPDSDSDSDAGSGSGSLRLTAQLLLPGBATQDPPPLPTRAANAANF 420
Db 356 SHSGPRGLSLQVLPPLPPDSDSDSDAGSGSGSLRLTAQLLLPGBATQDPPPLPTRAANAANF 420
Qy 357 QRCQTRP-QLQVLPPLPPDSDSDSDAGSGSGSLRLTAQLLLPGBATQDPPPLPTRAANAANF 420
Db 357 QRCQTRP-QLQVLPPLPPDSDSDSDAGSGSGSLRLTAQLLLPGBATQDPPPLPTRAANAANF 420
Qy 416 AAVNFFNIDPAPELRPHPLGIPTN 440
Db 413 TVNFFVTDSVEIRPHPLSSPVN 437
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## RESULT 5

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US-09-829-631A-13
; Sequence 13, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
; APPLICANT: Sibley, David R.
; APPLICANT: Monsma, Frederick J.
; APPLICANT: Hamblin, Mark
; TITLE OF INVENTION: The ST-B17 Serotonin Receptor
; FILE REFERENCE: NIH047.1CPI1
; CURRENT APPLICATION NUMBER: US/09/829,631A
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 08/428,242
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
; NAME/KEY: VARIANT
; LOCATION: (1)...(439)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-09-829-631A-13
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Query Match 77.2%; Score 1768.5; DB 9; Length 439;
Best Local Similarity 77.6%; Pred. No. 1.2e-134;
Matches 356; Conservative 8; Mismatches 56; Indels 39; Gaps 4;

Qy 1 MYPEPGTANSTPAWGAGPPSPAGSGWVAALCVVLTAAANSLLIATCTQPALRNT 60
Db 1 MYPEPGTANSTPAWGAGARXX-GGSGWVAAGLCVVLTAAANSLLIATCTQPALRNT 59
Qy 61 SNFFLVSLFTSDLMVGLVMPVPMALNLYGRWVLARGCLLWTAFDVMCCSASILNLCII 120
Db 60 SNFFLVSLFTSDLMVGLVMPVPMALNLYGRWVLARGCLLWTAFDVMCCSASILNLCII 119
Qy 121 SLDRYLLILSPRYKLRMTPLRALALVIGWLSAALASFLPILLGWHELGHARPPVPGQC 180
Db 120 SLDRYLLILSPRYKLRMTPLRALALVIGWLSAALASFLPILLGWHELGHARPPVPGQC 179
Qy 181 RLLASLPFVLVASGLTFFLPSCAICFYCYRILLAAKQAVQVASLTGMAQASSETLQVP 240
Db 180 RLLASLPFVLVASGLTFFLPSCAICFYCYRILLAAKQAVQVASLTGMAQASSETLQVP 239
Qy 241 RTPRGVESADSRRLATKSKKALKASLTGILLGMFFVTWLPFFVANIVQAVCDICSPG 300
Db 240 RSPAAGVESADSRRLATKSKKALKASMTGLIGLGMFFVTWLPFFVANIVQAVCDICSPG 299
Qy 301 LFDVLTWLGVCNSTMNPPIIYPLFMRDKRALGRFLPCPCPRERQASLASPSLRTSHSGP 360
Db 300 LFDVLTWLGVCNSTMNPPIIYPLFMDFKALGRFLPCPCPRE-----P 343
Qy 361 RPLGLSQVLPPLPPD-----SDSDSDAGSGSGSLRLTAQLLLP 401
Db 344 RPWPRHHHCAPLTAAPGPAALAYSCRCPCRRITQIRTOQAAPACRACGRSPSCFLARP 403
Qy 402 CEATQDPLPTRAANAANFENIDPAPELRPHPLGIPTN 440
Db 404 PRTPCPPGPPPPSIS-----STSXPAPELRPHPLGIPTN 439
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## RESULT 6

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US-09-829-631A-10
; Sequence 10, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
; APPLICANT: Sibley, David R.
; APPLICANT: Monsma, Frederick J.
; APPLICANT: Hamblin, Mark
```

```
; TITLE OF INVENTION: The ST-B17 Serotonin Receptor
; FILE REFERENCE: NIH047.1CP1C1
; CURRENT APPLICATION NUMBER: US/09/829.631A
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 08/428,242
; PRIOR FILING DATE: 1995-09-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Rat
US-09-829-631A-10

Query Match          60.5%; Score 1387; DB 9; Length 291;
Best Local Similarity 92.8%; Pred. No. 5.1e-104;
Matches 270; Conservative 5; Mismatches 16; Indels 0; Gaps 0;

QY 1 MVPEFGPTANSTPAWGAGPPSPAGSGWVAALCVVIALTAANSLLIALICTQPALRNT 60
DB 1 MVPEFGPVNSTPANGPGPPAPGSGWVAALCVVILTAANSLLIVLICTPQAVRNT 60
QY 61 SNFVLVSFLTSDLMVGLVWVPPAMNLYGRWVLARGCLLTAFDVMCCSASILNLCI 120
DB 61 SNFVLVSFLTSDLMVGLVWVPPAMNLYGRWVLARGCLLTAFDVMCCSASILNLCI 120
QY 121 SLDRYLLILSPRYKLRMTPLRALALVIGAWSLAALASFLPLLGLWHELGHARPPVPGQC 180
DB 121 SLDRYLLILSPRYKLRMTAPRALALILGWSLAALASFLPLLGLWHELGHKARTPAPGQC 180
QY 181 RLASLPEFLVVASGLTFEFLPSGATCFYCYCRILLAARKQAVQVASTLTGMASQASETLOVP 240
DB 181 RLASLPEFLVVASGLTFEFLPSGATCFYCYCRILLAARKQAVQVASTLTGTAGQALETLOVP 240
QY 241 RTPRGVESADSRRLATKHSRKALKAKLTGILGMFEFFVTLPPFFVANIVQ 291
DB 241 RTPRGVESADSRRLATKHSRKALKASLTGILGMFEFFVTLPPFFVANIAQ 291

RESULT 7
US-10-225-567A-50
; Sequence 50, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225.567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-50

Query Match          24.3%; Score 557; DB 14; Length 477;
Best Local Similarity 33.8%; Pred. No. 1.3e-36;
Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;

QY 1 MVPEFGPTANSTPAWGAGPPSPAGSGWVAALCVVIALTAANSLLIALICTQPALRNT 60
DB 33 LVPASPPASLLPPASEPELPSQWTAGMGLLVALLVAGNVLVIAIKTPRLQTL 92
QY 61 SNFVLVSFLTSDLMVGLVWVPPAMNLYGRWVLARGCLLTAFDVMCCSASILNLCI 120
DB 93 TNLFFIMSLAGADLVNGLLVVPPGATIVVMGRKVEGSPFCELTWTSVDVLCVTASITLCVI 152

; TITLE OF INVENTION: The ST-B17 Serotonin Receptor
; FILE REFERENCE: NIH047.1CP1C1
; CURRENT APPLICATION NUMBER: US/09/829.631A
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 08/428,242
; PRIOR FILING DATE: 1995-09-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Rat
US-09-829-631A-10

Query Match          60.5%; Score 1387; DB 9; Length 291;
Best Local Similarity 92.8%; Pred. No. 5.1e-104;
Matches 270; Conservative 5; Mismatches 16; Indels 0; Gaps 0;

QY 1 MVPEFGPTANSTPAWGAGPPSPAGSGWVAALCVVIALTAANSLLIALICTQPALRNT 60
DB 1 MVPEFGPVNSTPANGPGPPAPGSGWVAALCVVILTAANSLLIVLICTPQAVRNT 60
QY 61 SNFVLVSFLTSDLMVGLVWVPPAMNLYGRWVLARGCLLTAFDVMCCSASILNLCI 120
DB 61 SNFVLVSFLTSDLMVGLVWVPPAMNLYGRWVLARGCLLTAFDVMCCSASILNLCI 120
QY 121 SLDRYLLILSPRYKLRMTPLRALALVIGAWSLAALASFLPLLGLWHELGHARPPVPGQC 180
DB 121 SLDRYLLILSPRYKLRMTAPRALALILGWSLAALASFLPLLGLWHELGHKARTPAPGQC 180
QY 181 RLASLPEFLVVASGLTFEFLPSGATCFYCYCRILLAARKQAVQVASTLTGMASQASETLOVP 240
DB 181 RLASLPEFLVVASGLTFEFLPSGATCFYCYCRILLAARKQAVQVASTLTGTAGQALETLOVP 240
QY 241 RTPRGVESADSRRLATKHSRKALKAKLTGILGMFEFFVTLPPFFVANIVQ 291
DB 241 RTPRGVESADSRRLATKHSRKALKASLTGILGMFEFFVTLPPFFVANIAQ 291

RESULT 8
US-10-295-027-716
; Sequence 716, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295.027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 716
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-10-295-027-716

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Query Match      24.3%; Score 557; DB 15; Length 477;
Best Local Similarity 33.8%; Pred. No. 1.3e-36;
Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;

QY 1 MYPEGPTANSTPAWGAGPPSAPGSGWVAALCVVIALTAANSLLIALICTOPALRNT 60
DB 33 LVFASPPASLLPPASESPEPLSQOQTAGMGLMLVLLVAGNVLVIAIAKTPLRQTL 92
QY 61 SNFFLVSLFTSDLMVGLVMPAMNLALYGRVWLARGCLLMTAFDVMCCSASILNLCIL 120
DB 93 TNLFMSLASADLVMLLVVPGATIVVGRWEYGFCELTWSVDVLCVTASIELCVI 152
QY 121 SIDRYLLILSPRYKLRMTPLRALALVGLANSLAALASFLPLLGLW--HELGHARPPV-- 176
DB 153 ALDRYLATISPRYOSLTRARAGLVCTVMAISALVSFLPLMHWRRAESDEARRCYND 212
QY 177 PQCRLLASLPFVLVAGSLTFLPSGAICFTYCRILLAAKQAVQVAS----LTTGMSAQ 232
DB 213 PKCCDFVTRAVAIASSVSVFVPLCINAFVYLVRFAKQVKKIDSCERFLGGPARP 272
QY 233 ASET-----LQVTRTPRGVESADS-----RELATKHSRKALKAKLTIGIL 273
DB 273 PSPSPVPAPAPPPGPPRPAATAAPLANGRAGRRPSRLVALRQKALK---TLGII 329
QY 274 LGMFFVTWLPFFVANIVQAV--CDCISPGLFVLTWLGVCNSTWNPITY--PLFMRDPKR 329
DB 330 MGVTLCWLPFFLVANVKAHRELVPDLRFVFNWLGYNASAFNPIYCRSP----DFRK 385
QY 330 ALGRFLPCPRERQASLASPSLRTSHSGPRPGLSLOQVLPPLP--PDSDSDSAGSGG 388
DB 386 AFQGLLCARRARRRHHATHGDRPRASGCLARPG-----PPSPGAASDDDDDDVVGA 438
QY 389 SSGRL 394
DB 439 TTPARL 444

RESULT 9
US-10-295-027-885
; Sequence 885, Application US/10295027
; Publication No. US2003023250A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glyme, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
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; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 885
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-295-027-885
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```
Query Match      24.3%; Score 557; DB 15; Length 477;
Best Local Similarity 33.8%; Pred. No. 1.3e-36;
Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;

QY 1 MYPEGPTANSTPAWGAGPPSAPGSGWVAALCVVIALTAANSLLIALICTOPALRNT 60
DB 33 LVFASPPASLLPPASESPEPLSQOQTAGMGLMLVLLVAGNVLVIAIAKTPLRQTL 92
QY 61 SNFFLVSLFTSDLMVGLVMPAMNLALYGRVWLARGCLLMTAFDVMCCSASILNLCIL 120
DB 93 TNLFMSLASADLVMLLVVPGATIVVGRWEYGFCELTWSVDVLCVTASIELCVI 152
QY 121 SIDRYLLILSPRYKLRMTPLRALALVGLANSLAALASFLPLLGLW--HELGHARPPV-- 176
DB 153 ALDRYLATISPRYOSLTRARAGLVCTVMAISALVSFLPLMHWRRAESDEARRCYND 212
QY 177 PQCRLLASLPFVLVAGSLTFLPSGAICFTYCRILLAAKQAVQVAS----LTTGMSAQ 232
DB 213 PKCCDFVTRAVAIASSVSVFVPLCINAFVYLVRFAKQVKKIDSCERFLGGPARP 272
QY 233 ASET-----LQVTRTPRGVESADS-----RELATKHSRKALKAKLTIGIL 273
DB 273 PSPSPVPAPAPPPGPPRPAATAAPLANGRAGRRPSRLVALRQKALK---TLGII 329
QY 274 LGMFFVTWLPFFVANIVQAV--CDCISPGLFVLTWLGVCNSTWNPITY--PLFMRDPKR 329
DB 330 MGVTLCWLPFFLVANVKAHRELVPDLRFVFNWLGYNASAFNPIYCRSP----DFRK 385
QY 330 ALGRFLPCPRERQASLASPSLRTSHSGPRPGLSLOQVLPPLP--PDSDSDSAGSGG 388
DB 386 AFQGLLCARRARRRHHATHGDRPRASGCLARPG-----PPSPGAASDDDDDDVVGA 438
QY 389 SSGRL 394
DB 439 TTPARL 444
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RESULT 10
US-09-988-745-9
; Sequence 9, Application US/09988745
; Publication No. US20020086362A1
; GENERAL INFORMATION:
; APPLICANT: Li, Yi and RUBEN, Steven
; TITLE OF INVENTION: HUMAN AMINE RECEPTOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN AND FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, NW, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
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Db 183 AQECHSNPRC---CSFASNMPYALLSSVSFVPLPLVLMFVYARVVFVAKRQR-HLLRRE 238  
QY 227 TQMASQASSETLQVPTPRP-----GVESADSR--RLATKHSRKALKAKLTGLILL 274  
Db 239 LGRFSPESPSRSPSPATGGTPAADGVPFCGRRPARLLPRLREHRLR---TLGLIM 295  
QY 275 GMFFVTWLPFFVAVIVAVOC--DCISPGDFDLVTLWGYCNSTMPPIIY--J-PLFWRDPKR 329  
Db 296 GIFSLCMLPFFLANVLRALAGSLVPSGVFIALNWLGVANSFNPVIYCRSPDRDAPRR 355  
QY 330 AL-----GRFLPCPRC---PRRQASLASPSLR--TSHSGPRP 362  
Db 356 LLCSYGGRGPEEPRAVTFFASVEARQSPPLNRPDGYEGARP 397

## RESULT 13

US-10-225-567A-98

; Sequence 98, Application US/10225567A

; Publication No. US20030113798A1

; GENERAL INFORMATION:

; APPLICANT: LifeSpan Biosciences

; APPLICANT: Brown, Joseph P.

; APPLICANT: Roush, Christine L.

; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS

; FILE REFERENCE: 1920-4-4

; CURRENT APPLICATION NUMBER: US/10/225,567A

; CURRENT FILING DATE: 2001-12-19

; PRIOR APPLICATION NUMBER: 60/257,144

; PRIOR FILING DATE: 2000-12-19

; NUMBER OF SEQ ID NOS: 2292

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 98

; LENGTH: 446

; TYPE: PRP

; ORGANISM: Homo sapiens

US-10-225-567A-98

Query Match 24.1%; Score 552.5; DB 14; Length 446;

Best Local Similarity 31.2%; Pred. No. 2.8e-36;

Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

QY 21 SAPGSGWV-----AAALCVVIALTAANSLLIALICTQPALRN-TSNRFLVSL 68  
Db 7 SAMDGTGLWVERDFSVRIITACFLSLLILSTLGNLTVCVAVIRPHLSKVTNFFVISL 66

QY 69 FTSDLMVGLVMPAMPALNLYGRWVLRGLCLLTWAFVYMCSSASILNCLISLDRIYLI 128  
Db 67 AVSDLLVAVLWMPKAVAEIAGFWPFG-SFCNIWVAFDIMGCTASTILNLCVISVDRIYAI 125

QY 129 LSPRYKLRMTPLRALALVLAWSLAALASFLPLLGHGHELGHARPPVPG----- 178  
Db 126 SSPFRYERKMTPKAAILSVANTLSVLISFIPVQLSWHK---AKTSPSDGNATSLAET 182

QY 179 --QCRLLASLPVLVAGLTFLPSGAICTFYCRILLAAKQAVQVVASL-TTGMAQASE 235  
Db 183 IDNCDSLSRTYAISSSVISFYPVIMVTVTRYIAQKQIRRIALERAARAAHAKNQ 242

QY 236 TLQVPRTPRGVESADSRRLATKHSRKALKAKLTGLIGLMFFVTWLPFFVAVIVQAVCD 295  
Db 243 TTTGNGKPECSQPSSESKMFKRETQVILK---TLSVINGVFVCCWLPFFILNCILPFCG 299

QY 296 -----CISPGFLFVLTWLYGNCSTMPPIIYPLFMRDFKRALGRFLPCPR-CPRERQA- 346  
Db 300 SGETQPFCDISNTDFVFWFGWANSLSNPIIY-AFNADFRKAFSTLLGCYRLCPATNNAI 358

QY 347 -----SLASPSLRTSHSGRPGLSLQVLPPLPPDSDSAGSGSGSLRLTAQLLP 401  
Db 359 ETVSINNGAAMPSSHHPRGSIKSCNLVYLIPHAVGSSDLKKEAAGIARPLEKUSP 418

QY 402 GEATQDPPLPTAAAAVNFNIDPAEPLRP-----HP 434  
| : : : : : |

Db 419 -----ALSVIDYDVTDSLEKIQTQNGQHP 445

## RESULT 14

US-10-299-642-2

; Sequence 2, Application US/10299642

; Publication No. US20030170741A1

; GENERAL INFORMATION:

; APPLICANT: The Procter &amp; Gamble Company

; APPLICANT: Isfort, Robert

; APPLICANT: Sheldon, Russell

; TITLE OF INVENTION: Methods for Identifying Compounds for Regulating Muscle Mass

; FILE REFERENCE: 8448M

; CURRENT APPLICATION NUMBER: US/10/299,642

; CURRENT FILING DATE: 2003-10-09

; PRIOR APPLICATION NUMBER: 60/349,620

; PRIOR FILING DATE: 2002-07-01

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 2

; LENGTH: 446

; TYPE: PRP

; ORGANISM: Homo sapiens

US-10-299-642-2

Query Match 24.1%; Score 552.5; DB 14; Length 446;

Best Local Similarity 31.2%; Pred. No. 2.8e-36;

Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

QY 21 SAPGSGWV-----AAALCVVIALTAANSLLIALICTQPALRN-TSNRFLVSL 68  
Db 7 SAMDGTGLWVERDFSVRIITACFLSLLILSTLGNLTVCVAVIRPHLSKVTNFFVISL 66

QY 69 FTSDLMVGLVMPAMPALNLYGRWVLRGLCLLTWAFVYMCSSASILNCLISLDRIYLI 128  
Db 67 AVSDLLVAVLWMPKAVAEIAGFWPFG-SFCNIWVAFDIMGCTASTILNLCVISVDRIYAI 125

QY 129 LSPRYKLRMTPLRALALVLAWSLAALASFLPLLGHGHELGHARPPVPG----- 178  
Db 126 SSPFRYERKMTPKAAILSVANTLSVLISFIPVQLSWHK---AKTSPSDGNATSLAET 182

QY 179 --QCRLLASLPVLVAGLTFLPSGAICTFYCRILLAAKQAVQVVASL-TTGMAQASE 235  
Db 183 IDNCDSLSRTYAISSSVISFYPVIMVTVTRYIAQKQIRRIALERAARAAHAKNQ 242

QY 236 TLQVPRTPRGVESADSRRLATKHSRKALKAKLTGLIGLMFFVTWLPFFVAVIVQAVCD 295  
Db 243 TTTGNGKPECSQPSSESKMFKRETQVILK---TLSVINGVFVCCWLPFFILNCILPFCG 299

QY 296 -----CISPGFLFVLTWLYGNCSTMPPIIYPLFMRDFKRALGRFLPCPR-CPRERQA- 346  
Db 300 SGETQPFCDISNTDFVFWFGWANSLSNPIIY-AFNADFRKAFSTLLGCYRLCPATNNAI 358

QY 347 -----SLASPSLRTSHSGRPGLSLQVLPPLPPDSDSAGSGSGSLRLTAQLLP 401  
Db 359 ETVSINNGAAMPSSHHPRGSIKSCNLVYLIPHAVGSSDLKKEAAGIARPLEKUSP 418

QY 402 GEATQDPPLPTAAAAVNFNIDPAEPLRP-----HP 434  
| : : : : : |  
Db 419 -----ALSVIDYDVTDSLEKIQTQNGQHP 445

## RESULT 15

US-10-299-642-4

; Sequence 4, Application US/10299642

; Publication No. US20030170741A1

; GENERAL INFORMATION:

; APPLICANT: The Procter &amp; Gamble Company

; APPLICANT: Isfort, Robert

; APPLICANT: Sheldon, Russell

; TITLE OF INVENTION: Methods for Identifying Compounds for Regulating Muscle Mass

; FILE REFERENCE: 8448M

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; FILE REFERENCE: 8448M
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; LENGTH: 446
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-299-642-4

Query Match      24.1%; Score 552.5; DB 14; Length 446;
Best Local Similarity 31.2%; Pred. No. 2.8e-36;
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

QY 21 SAPGSGWY-----AAALCWVIALTAANAALLIALICTQPALRN-TSNPFLVSL 68
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7 SAMDGTGLVVERDFSVRIITACFLSLILSLTLLGNTLVCAAVIRFHLRSKVTNEFFVISL 66
QY 69 FTSDLMVGLVPPAMNLALYGRWVLARGCLLWTAFAVDMCCSAILNLCISLDYLLI 128
Db |||:||||:||||:||||:||||:||||:||||:||||:||||:||||:|||| 125
67 AVSDLLVAVLVMPKAVAGIAGFPFG-SFCNIWVAFDIMCSTASILNLCVISVDYWAI 125
QY 129 LSPLRYKLRWTLRALALVGLAWSLAALASFLPLLLGHWELGHARPPVPG----- 178
Db |||:||||:||||:||||:||||:||||:||||:||||:||||:||||:|||| 182
126 SPFFRYERKWTPKAAFIILSVAWTUSVLISFIPVQLSWHK---AKTSPDGNATSLAET 182
QY 179 --QCRLLASLPFVLVASGLTFELPSGAICTFYCRILLAAKQAVQVAVSL-TTGMASQASE 235
Db |||:||||:||||:||||:||||:||||:||||:||||:||||:||||:|||| 242
183 IDNCSSLSRTVAISSVISFYPVAIMIVTVTRYIAQKQIRRIALERAHAHAKNCQ 242
QY 236 TLQVPTPTPGVESADSRRLATKHSRKALKAKLTGILLGMFFVTWLPFFVANIYQAVCD 295
Db |||:||||:||||:||||:||||:||||:||||:||||:||||:||||:|||| 299
243 TTGNGKPVCECSQPESSFKNSFKRETKVK---TLVINGVFVCCWLPFFIILNCILPFCG 299
QY 296 -----CISPLGFDVLTWLYGCNSTMPNPIIYPLFMRDFKRALGRFLPCPR-CPREROA- 346
Db |||:||||:||||:||||:||||:||||:||||:||||:||||:||||:|||| 358
300 SGETQPFCDISNTFDVFWFGWANSNLNPIY-AFNADFRKAFSTLLGCRYLCPATNNAI 358
QY 347 -----SLASPSLRTSHSGRPGLSLOQVLPPLPDPDSDSDSAGSGSGSLRLTAQLLP 401
Db |||:||||:||||:||||:||||:||||:||||:||||:||||:||||:|||| 418
359 ETVSINNNGAAMPSSSHHEPRGSISKECNLVYLIPHAVGSSDLKKKEAAGIARPLEKUSP 418
QY 402 GEATQDPPLPTRAANAANFNIDPAEPELRP-----HP 434
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419 -----ALSVILDYDIDVSLKIQIPITQNGHP 445

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Search completed: May 7, 2004, 13:25:57  
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